

MISCELLANEOUS NOTES ON NEOTROPICAL FLORA, XIV

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CECROPIA UTCUBAMBANA Cuatr. sp. nov.

Arbor 10 m alta. Rami terminales robusti circa 3-4 cm diam ochraceo-virides nodis 12-25 mm longis laevibus puberulis pilis teneris minutis vel minutissimis acutis albis vel hyalinis et pilis crassis brunnescentibus sparsis vel copiosis muniti. Stipula terminalis viridi-ochracea 8-10 cm longa extus minute puberula pilis crassiusculis ferrugineis minutis sparsis, intus sericea pilis rectis rigidulis acutis albo-hyalinis 1-2 mm longis prostratis copiose vestita.

Folia chartacea peltata utrinque viridia. Lamina usque ad 62 cm longa 60 cm lata 9-10-costata usque medium vel ad $2/3$ lobata, lobis radiatis ellipticis vel elliptico-obovatis ad apicem attenuatis obtusisque ad basim plus minusve angustatis; lobi maximi ab insertionem petioli usque ad apicem 32-37 cm longi parte libera 13-16 cm lati, minimi 11-19 cm longi 6-9 cm lati, parte centrali integra inter lobos majores 10-16 cm, inter minores 6 cm radii; margo leviter sinuata papillosa et breviter piloso-araneosa; adaxiale in vivo viridissima, asperrima pilis brevibus rectis acutissimis hyalinis fragilibus basi conica calcarea indurata persistenti, costa nervisque secundariis filiformibus notatis; abaxiale in juvenilis nervis rubescentibus in adultis omnino pallide viridis, aspectu glabra sed nervis venulisque minutissimis pilis papillosis crassiusculis copiose praedita; costae robustae argute striatae nervi secundarii graciliter promigentes semiteretes microscopicè granulati, proximales angulo 55° distales angulo 30° ascendentes plerumque 1.5-2 cm inter se distantes vel in lobis infimis 1-1.5 cm tantum separati; venae minores subparallelae prominulae 3-4 mm distantes sed interdum venula intermedia magis tenuis adsunt; areolae planae vel leviter convexae virides minutissime sparseque papillosae. Petiolus robustus 34-53 cm longus argute striatus aspectu glaber sed pilis minutissimis acutis vel obtusis papilliformibus sparsis munitis; pulvinus basalis emansus ferrugineus velutinus pilis patulis rectis acutis uniseriatis pluricellularibus 0.7-1 mm longis congestissime dispositis, interdum corpusculis albidis ellipsoideis 0.2-0.3 mm longis inter tomentum presentibus. In foliis valde juvenilibus (15-20 cm diam) lamina tenella membranacea adaxiale scabra pilis conicis acutissimis minutis copiose munita, abaxiale glabra nervis venisque sparse vel copiose minuteque papilloso-pilosis excepta.

Inflorescentiae femineae 4(-5)-amentiferae longissime pedunculatae pendulaeque, jam maturitate in speciminibus. Pedunculus 36-50 cm longus 4 mm diametro striatus sparse minuteque puberulus

viridi-ochraceus. Spathae in specimine absentes. Amenta sessilia teretia 28-32 cm longa 9-10 mm diam, aliquando magis juvenila 20-30 cm longa 7 mm crassa aspectu cinerea sed lana alba inter flores adpressa conspicua, tactu sublaevia (non aspera). Perianthium florum femineum scariosum hyalinum fragile apice calloso-incrassato obtuso vel leviter angulato ochraceo viridulo minute papilloso et dilute arachnoideo, sursum prope marginem copiose albo-lanatum. Stigmata rubescentia. Semina ellipsoidea moderate compressa 1.8-2.1 x 1-1.2 mm, interdum adpresse ovoidea 1.3 x 1.7 mm, brunnescentia nitida laevia vel partiale sublaevia, conspicue ochroleuco-marginata.

Typus: Peru, prov. Bongará, dept. Amazonas: 4 km below Campamento Ingenio, along Rio Utcubamba, 1250 m alt. Tree to 10 m; leaves 10-lobed; veins and petioles of younger leaves reddish; fruit 4-5 fingered. Ants cultivate aphids in cells of stems; these collected in 1 oz. jar. 28 Jan 1964, P.C. Hutchinson & J.K. Wright 3844. Holotype, UC; isotype, US.

Cecropia utcubambana is closely related to few other species also with chartaceous, totally green leaves, subglabrous below and scabrous above, like *C. putumayonis*, *C. setico*, *C. burriada*, and *C. dabeibana*, some of them having also pendulous spadices. The new species differs from them by having the following features together: very long inflorescence peduncles, very long sessile spikes, 9-10 main nerves and leaf-lobes, the lobes broadly elliptic or obovate-elliptic and the petioles and peduncles scabrous. It is expected that male specimens which unfortunately are lacking at present will produce additional characters when collected in the future.

CARRAMBOA TACHIRENSIS (Aristeguieta) Cuatr. comb. nov.

Espeletia tachirensis Aristeguieta, Compositae in Flora Venezuela 10(1):427. 1964.

Espeletiopsis tachirensis (Aristeguieta) Cuatr. Phytologia 35(1):56. 1976.

Recent study of the growth form in the field by the author of this and the following species has resulted in their transfer to Carramboa.

CARRAMBOA WURDACKII (Ruiz-Terán & López-Figueiras) Cuatr. comb. nov.

Espeletia wurdackii Ruiz-Terán & López-Figueiras, Rev. Fac. Farm. Univ. Andes, Mérida 17:1. 1976.

Libanothamnus wurdackii (Ruiz-T. & López-F.) Cuatr. Phytologia 35(1):51. 1976.

ESPELETIA MIRADORENSIS (Cuatr.) Cuatr. Nov. status

Espeletia grandiflora var. miradorensis Cuatr. Phytologia 32:324. 1975.

EPELETIA CAYETANA (Cuatr.) Cuatr. nov. status.

Epeletia grandiflora var. cayetana Cuatr. Phytologia 32:323.1975.

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STUDIES IN NEOTROPICAL SENECTIONEAE III.
NEW TAXA IN SENECIO, PENTACALIA AND GYNOXYS

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SENECIO HANSWEBERI Cuatr. sp. nov.

Herba rhizomatosa caule lignoso argute nodoso prostrato semi-subterraneo repente plagiotropo cum radicis numerosis subteneris carnosulis geotropis et ramulis brevibus rosulas paucifoliatas terminales gerentibus.

Folia rosularia 9-20 cm longa 4-8 mm lata sessilia. Lamina carnosulo-coriacea rigida oblanceolato-linearis subite acutata marginibus argute revolutis aspectu integerrima basin versus paulo attenuata, adaxiale in adultis viridissima laevis glabra tantum linea mediali plus minusve impressa, abaxiale costa elevata sicut marginibus retortis viridibus glabrisque ceterum plana alba densissima adpresque lanata infra indumentum enervia superficie laevi; basis laminae in vaginam ampliata. Vagina membranacea viridula glabra parallele nervata circa 3 cm longa basi ad 8-9 mm lata valde amplexcenti.

Caulis florifer terminalis bene foliatus robustiusculus fistulosus striatus rigidus erectisque ad 30 cm longus purpurascens subglaber tantum pilis albis tenuissimis longissimis araneosis dilutis denique deciduis, copiose foliis alternis rosularibus similibus sed sursum gradation brevioribus, medialis ad 12 cm longis superme 6-4 cm x 3-2 mm omnibus ad basim ampliatis vaginantibus amplexcentibusque. Pars distalis fertilis 5-10 cm longa corymbiforme ramosa, ramis alternis proximalibus 8-10 cm longis vel longioribus 2-3 capituliferis sursum gradatim brevioribus plerumque monocephalis, pedunculis 1-2 cm longis vel longioribus striatis rigidis erectisque. Bracteae subtendentes inferiores folia suprema similes 30 x 2-3 mm, lanceolatae sursum minores lineares acutae in pedunculis copiosae, supremae 10-8 x 1-0.6 mm subimbricatae in calyculum gradatim mutantes.

Capitula erecta radiata cylindraceo-campanulata 14-18 mm alta 9-12 mm diametro, circulo ligularum 25-30 mm diam, 137-143 flores ferentia. Calyculus 8-10 bracteolis lineari-lanceolatis acutis 6-9 x 1.0-1.6 mm, herbaceis crassiusculis viridibus sursum plus minusve purpureis glabris (vel marginibus parvis pilis 0.1-0.2 mm)